

**ABSTRACT**

A method of detecting and compensating for leakage of hydraulic fluids in a production plant, is described and claimed. The method requires two tracer materials, each with its own separate and uniquely detectable fluorescent signal. One of the tracer materials is used for rapid  
5 detection of leakage of hydraulic fluid into the cooling water and the other tracer material is used to determine the buildup of hydraulic fluid within the cooling water system.